PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

oplicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416
2346 PCT	- Issue data (day/month/year)	Priority date (day/month/year)
temational application No.	International filing date (day/month/year)	24.07.2003
CT/EP2004/008201	22.07.2004	
ternational Patent Classification (IPC)	or national classification and IPC	
itemational Patent Classification (i. 5)	0	
602C7/02, G02C7/04, A61F9/00		
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	al preliminary examination report, established b	by this International Preliminary Examining
		cle 36.
Authority under Article 55 and	total of 7 sheets, including this cover sheet.	
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10/565877



International application No. PCT/EP2004/008201

IAP20 Rec'u PCTATO 23 JAN 2006

_	Box No. I Basis of the re	port			<u>:</u>		
1.	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.						
	which is the language o international search publication of the inte	translations from the original land f a translation furnished for the p (under Rules 12.3 and 23.1(b)) ernational application (under Rule nary examination (under Rules 55	urposes of:		language ,		
2.	have been furnished to the I	s* of the international application, receiving Office in response to ar and are not annexed to this report)	n invitation unde	ased on er Article	(replaceme 14 are refe	ent sheets v erred to in ti	vhici his
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	Description, Pages		•				
	1-29	as originally filed				•	
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	Claims, Numbers					•	
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3.		resulted in the cancellation of:					
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4.	This report has been es had not been made, since the Supplemental Box (Rule 70)	stablished as if (some of) the am hey have been considered to go .2(c)).	beyond the dis	closure	as filed, as i	ndicated in	the
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/008201

_	Box	No. IV	Lack of unity of i	nvention					
_					or pay addi	tional fees, the	applicant has:		
1.	 ☑ In response to the invitation to restrict or pay additional fees, the applicant has: ☐ restricted the claims. 								
	٠.		☑ restricted the claims. ☑ paid additional fees.						
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		This Aut	thority found that the	e requirem applicant t	nent of unity o restrict or	pay additional	663.		•
3.	Thi:	s Authori	ty considers that the	e requirem	ent of unity	of invention in a	accordance wit	h Rules 13.1, 10	3.2 and 13.3
•		complie	d with.					. •	
•	⊠	not com	plied with for the fo	llowing rea	asons:				
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4.	. Co	nsequent	lly, this report has b	een estab	lished in res	spect of the follo	wing parts of t	he international	application:
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1	. Sta	atement						. 44 40 44 55 6	4
	No	velty (N)	·		Claims	2,3,6,7,9,14-2	20, 30,32,33,39 20, 31,34-3	9-41,43,44,55-6 18 42 45-54	4
No: Claims 1,4,5,8,10-13,21-29,31,34-38,42,4									
	inv	Inventive step (IS) Yes: Claims		2,3,6,7,9,14-	20, 30,32,33,3	9-41,43,44,55-6	4		
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2. Citations and explanations (Rule 70.7):

see separate sheet



IAP20 Rec'd PCT/PTO 23 JAN 2006 International application No.

PCT/EP2004/008201

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

Re Item IV.

The separate groups of inventions are:

Claims 1-20
 A marked contact lens, which is not vision impairing.

Claims 21-54
 A method for evaluating the position of a marked contact lens in the patients eye.

Claims 55-64
 Method for determining pupil parameters.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

The common special technical feature in groups 1 and 2 is a marked contact lens. Such a contact lens is disclosed for example in document EP 0 949 528 (see column 8, paragraph 32).

The problems solved by both groups are also different, namely, providing a marked contact lens, which does not impaire the vision of the user and providing a method to evaluate the movement of the lens in the eye.

The common special technical feature in groups 1 and 3 does not exist. The problems solved are obviously different as well.

The common special technical feature in groups 2 and 3 is the step of determining the center of the pupil of the patient. Such a step is disclosed for example in document EP 0 949 528 (see column 9, lines 20-26).

The problems solved by both groups are also different, namely, providing a method to evaluate the movement of the lens in the eye and providing a method to determine pupil parameters of an eye.

Therefore, the three groups of inventions cannot be considered to have a common single general inventive concept. As a consequence, claim groups 1, 2 and 3 are non unitary according to Rule 13.1 and 13.2 PCT.

Re Item V.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

The following documents are referred to in this communication:

D1: EP 0 949 528 A (MENICON CO LTD) 13 October 1999 (1999-10-13)

D2: DE 102 41 210 A (TECHNOVISION GMBH GES FUER DIE) 25 March 2004 (2004-03-25)

- INDEPENDENT CLAIM 1 (1st group of inventions)
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parenthesis applying to this document):

A contact lens (abstract), comprising: a surface including a plurality of marks in an optical zone region of the lens (column 8, lines 17-21), wherein the marks are light absorbing or light scattering with respect to light propagating in a posterior to anterior lens surface direction (it is understood that the index provided on the lens will absorb light in both directions if its a dyed mark or scatter it if has been done with a laser or a cutter, c.f. column 9, lines 24-27), wherein the marks are non-vision impairing with the lens in-vivo (column 9, lines 29-31).

3. DEPENDENT CLAIMS 4, 5, 8, 10-13

Dependent claims 4, 5, 8, 10-13 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step (Article 33(2) and (3) PCT).

4. DEPENDENT CLAIMS 2, 3, 6, 7, 9, 14-20

The combination of the features of dependent claims 2, 3, 6, 7, 9, 14-20 are neither known from, nor rendered obvious by, the available prior art.

- 5. INDEPENDENT CLAIMS 21, 29 and 45 (2nd group of inventions)
 - 5.1 Although the present application claims priority of the german DE 10333794, this priority claim does not seem to hold for the following reason.

The applicant is reminded that only the date of filling of the "first application"

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/008201

can be claimed as a priority (Article 8 PCT). It seems however that in the present case, the subject-matter of independent claim 21 of the present invention is already contained in earlier german application DE 102 41 210 filed on September, 5th 2002, later published as DE 102 41 210 (D2) and disclosing (the references in parentheses applying to this document):

A method for making a contact lens measurement in vivo (paragraph 11), comprising:

- providing a selectively marked contact lens in vivo (paragraphs 16, 21);
- obtaining an image of said lens in vivo (paragraph 27)
- determining a pupil coordinate parameter (paragraphs 19, 33)
- calculating a position and/or orientation coordinate parameter of the contact lens for each image with respect to the pupil coordinate parameter (paragraph 18); and
- repeating steps (a-d) at a repetition rate greater than about 10 Hz over a selected time interval (paragraphs 35, 27, 82).

Accordingly the claim to priority is not valid in respect of the subject-matter already contained in the earlier DE application 102 41 210. As a consequence of the non valid priority, document D2 published on March 25th, 2004 (before the filing of the present application) forms part of the state of the art in the sense of Rule 33(1) PCT. Hence the subject-matter of claim 21 is not new in the sense of Article 33(2) PCT.

- 5.2 The same reasoning applies mutatis-mutandis to claims 29 and 45. Hence the subject-matter of these claims is not new in the sense of Article 33(2) PCT.
- 6. DEPENDENT CLAIMS 22-28, 31, 34-38, 42, 46-54

Dependent claims 22-28, 31, 34-38, 42, 46-54 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step (Article 33(2) and (3) PCT).

DEPENDENT CLAIMS 30, 32, 33, 39-41, 43, 44

*INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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The combination of the features of dependent claims 30, 32, 33, 39-41, 43, 44 are neither known from, nor rendered obvious by, the available prior art.

8. INDEPENDENT CLAIM 55 and DEPENDENT CLAIMS 56-64

The combination of the features of claims 55-64 are neither known from, nor rendered obvious by, the available prior art.